

```

=> file biosis caba caplus embase japiro lifesci medline scisearch
=> e lee che hung robert/au
E1      1      LEE CHE HUNG DR/AU
E2      3      LEE CHE HUNG R/AU
E3      5 --> LEE CHE HUNG ROBERT/AU
E4      1      LEE CHE MING/AU
E5      5      LEE CHE NAN/AU
E6      1      LEE CHE RUNG/AU
E7      4      LEE CHE SUM/AU
E8      1      LEE CHE TAI/AU
E9      6      LEE CHE WAH/AU
E10     1      LEE CHE WEI/AU
E11     2      LEE CHE YIN/AU
E12     1      LEE CHE YOUNG/AU

=> s e1-e3
L1      9  ("LEE CHE HUNG DR"/AU OR "LEE CHE HUNG R"/AU OR "LEE CHE HUNG
ROBERT"/AU)

=> dup rem 11
PROCESSING COMPLETED FOR L1
L2      9 DUP REM L1 (0 DUPLICATES REMOVED)

=> d 1-
YOU HAVE REQUESTED DATA FROM 9 ANSWERS - CONTINUE? Y/(N):y

L2  ANSWER 1 OF 9  CAPLUS COPYRIGHT 2009 ACS on STN
AN  2009:426211  CAPLUS <<LOGINID::20091109>>
DN  150:421151
TI  Methods for preparing complex multivalent immunogenic conjugates
IN  ***Lee, Che-Hung Robert***"
PA  The Government of the United States of America as Represented by the
Secretary of the Department of, USA
SO  U.S. Pat. Appl. Publ., 62pp., Cont.-in-part of Appl. No.
PCT/US2007/006627.
CODEN: USXXCO
DT  Patent
LA  English
FAN.CNT 2

PATENT NO.      KIND      DATE      APPLICATION NO.      DATE
-----  -----  -----  -----
PI  US 20090092632  A1  20090409  US 2008-283894  20080915
WO 2007109129  A2  20070927  WO 2007-US6627  20070316
WO 2007109129  A3  20071108
      W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH,
      CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD,
      GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN,
      KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, MG, MK, MN,
      MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS,
      RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ,
      UA, UG, US, UZ, VC, VN, ZA, ZM, ZW
      RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE,
      IS, IT, LT, LU, LV, MC, MT, NL, PL, PT, RO, SE, SI, SK, TR, BE,
      BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW,
      GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ,
      BY, KG, KZ, MD, RU, TJ, TM, AP, EA, EP, OA

PRAI US 2006-783490P      P      20060317

```

WO 2007-US6627 A2 20070316
 ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

L2 ANSWER 2 OF 9 CAPLUS COPYRIGHT 2009 ACS on STN
 AN 2007:1089566 CAPLUS <>LOGINID::20091109>>
 DN 147:384016
 TI Methods for preparing complex multivalent immunogenic conjugates
 IN ***Lee, Che-Hung Robert***
 PA United States Dept. of Health and Human Services, USA
 SO PCT Int. Appl., 99 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2007109129	A2	20070927	WO 2007-US6627	20070316
	WO 2007109129	A3	20071108		
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW				
	RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GO, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AP, EA, EP, OA				
	AU 2007227504	A1	20070927	AU 2007-227504	20070316
	AU 2007227504	A2	20081030		
	CA 2644724	A1	20070927	CA 2007-2644724	20070316
	EP 1993604	A2	20081126	EP 2007-753268	20070316
	R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, LV, MC, MT, NL, PL, PT, RO, SE, SI, SK, TR				
	IN 2008KN03682	A	20090220	IN 2008-KN3682	20080909
	US 20090092632	A1	20090409	US 2008-283894	20080915
	CN 101405028	A	20090408	CN 2007-80009505	20080917
	KR 2008103604	A	20081127	KR 2008-725441	20081017
PRAI	US 2006-783490P	P	20060317		
	WO 2007-US6627	W	20070316		

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

L2 ANSWER 3 OF 9 CAPLUS COPYRIGHT 2009 ACS on STN
 AN 2005:371097 CAPLUS <>LOGINID::20091109>>
 DN 142:428760
 TI Polysaccharide-protein conjugate vaccines preparation
 IN Jessouroun, Ellen; Da Silveira, Ivna Alana Freitas Brasileiro; Bastos,
 Renata Chagas; Frasch, Carl E.; ***Lee, Che-Hung Robert***
 PA The Government of the United States of America, as Represented by the
 Secretary Department of Health and Human Services, USA
 SO PCT Int. Appl., 41 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2005037320	A2	20050428	WO 2004-US26431	20040806
	WO 2005037320	A3	20060105		
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
	RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	AU 2004281630	A1	20050428	AU 2004-281630	20040806
	CA 2535043	A1	20050428	CA 2004-2535043	20040806
	EP 1651262	A2	20060503	EP 2004-809568	20040806
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, PL, SK, HR				
	BR 2004013323	A	20061010	BR 2004-13323	20040806
	CN 1863354	A	20061115	CN 2004-80028978	20040806
	CN 100423774	C	20081008		
	ZA 2006001688	A	20070530	ZA 2006-1688	20060227
	ZA 2006001689	A	20071227	ZA 2006-1689	20060227
	IN 2006DN01096	A	20070810	IN 2006-DN1096	20060301
	US 20070110762	A1	20070517	US 2006-566898	20061026
PRAI	US 2003-493389P	P	20030806		
	WO 2004-US26431	W	20040806		
OSC.G	1	THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS)			
RE.CNT	1	THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD			
	ALL CITATIONS AVAILABLE IN THE RE FORMAT				

L2 ANSWER 4 OF 9 CAPLUS COPYRIGHT 2009 ACS on STN
 AN 2005:136594 CAPLUS <>LOGINID::20091109>>
 DN 142:217375
 TI Preparation of polysaccharide-protein conjugate for use as vaccines
 IN ***Lee, Che-Hung Robert*** ; Frasch, Carl E.
 PA The Government of the United States of America, as Represented by the
 Secretary Department of Health and Human Services, USA
 SO PCT Int. Appl., 61 pp.
 CODEN: PIIXD2
 DT Patent
 LA English
 FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2005014037	A2	20050217	WO 2004-US25477	20040806
	WO 2005014037	A3	20060126		
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
	RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK,				

EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE,
SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE,
SN, TD, TG
AU 2004263135 A1 20050217 AU 2004-263135 20040806
CA 2534870 A1 20050217 CA 2004-2534870 20040806
EP 1651261 A2 20060503 EP 2004-786467 20040806
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, PL, SK, HR
BR 2004013309 A 20061010 BR 2004-13309 20040806
CN 1863553 A 20061115 CN 2004-80028977 20040806
ZA 2006001688 A 20070530 ZA 2006-1688 20060227
ZA 2006001689 A 20071227 ZA 2006-1689 20060227
IN 2006DN01095 A 20070810 IN 2006-DN1095 20060301
US 20070141084 A1 20070621 US 2006-566899 20060925
PRAI US 2003-493389P P 20030806
WO 2004-US25477 W 20040806

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT
OSC.G 3 THERE ARE 3 CAPLUS RECORDS THAT CITE THIS RECORD (3 CITINGS)
RE.CNT 1 THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L2 ANSWER 5 OF 9 BIOSIS COPYRIGHT (c) 2009 The Thomson Corporation on STN
AN 2006:158654 BIOSIS <>LOGINID::20091109>>
DN PREV200600154114
TI A method with increased yield for production of polysaccharide-protein
conjugate vaccines using hydrazide chemistry.
AU ***Lee, Che-Hung R.*** [Reprint Author]; Frasch, Carl E.
CS Ctr Biol Evaluat and Res, Div Bacterial Prod, Rockville, MD 20852 USA
lee_r@cbcr.fda.gov
SO Abstracts of Papers American Chemical Society, (MAR 28 2004) Vol. 227, No.
Part 1, pp. U137.
Meeting Info.: 227th National Meeting of the American-Chemical Society.
Anaheim, CA, USA. March 28 -April 01, 2004. Amer Chem Soc.
CODEN: ACSRAL. ISSN: 0065-7727.
DT Conference; (Meeting)
Conference; Abstract; (Meeting Abstract)
LA English
ED Entered STN: 9 Mar 2006
Last Updated on STN: 9 Mar 2006

L2 ANSWER 6 OF 9 CAPLUS COPYRIGHT 2009 ACS on STN
AN 2004:221628 CAPLUS <>LOGINID::20091109>>
TI A method with increased yield for production of polysaccharide-protein
conjugate vaccines using hydrazide chemistry
AU ***Lee, Che-Hung R.*** ; Frasch, Carl E.
CS Division of Bacterial Products, Center for Biologics Evaluation and
Research, Rockville, MD, 20852, USA
SO Abstracts of Papers, 227th ACS National Meeting, Anaheim, CA, United
States, March 28-April 1, 2004 (2004), BIOT-082 Publisher: American
Chemical Society, Washington, D. C.
CODEN: 69FGKM
DT Conference; Meeting Abstract
LA English

L2 ANSWER 7 OF 9 EMBASE COPYRIGHT (c) 2009 Elsevier B.V. All rights
reserved on STN
AN 1996290447 EMBASE <>LOGINID::20091109>>

TI Characterization of the binding of soluble CD14 to human endothelial cells and mechanism for CD14-dependent cell activation by LPS.
AU Zhang, Jun-Kui; Morrison, Timothy K.; Falk, Michael C.; Kang, Yuan-Hsu;
Lee, Che-Hung, Dr. (correspondence)
CS Septic Shock Research Program, Pathobiology Branch, Naval Medical Research Institute, Bethesda, MD, United States.
AU ***Lee, Che-Hung, Dr. (correspondence)***
CS Code 062, Septic Shock Research Program, Naval Medical Research Institute, Bethesda, MD 20889-5607, United States.
AU Zhang, Jun-Kui
CS Dept. of Chemistry and Biochemistry, University of Oklahoma, Norman, OK 73019, United States.
SO Journal of Endotoxin Research, (1996) Vol. 3, No. 4, pp. 307-315.
Refs: 34
ISSN: 0968-0519 CODEN: JENREB
CY United Kingdom
DT Journal; Article
FS 018 Cardiovascular Diseases and Cardiovascular Surgery
026 Immunology, Serology and Transplantation
LA English
SL English
ED Entered STN: 21 Oct 1996
Last Updated on STN: 21 Oct 1996

L2 ANSWER 8 OF 9 CAPLUS COPYRIGHT 2009 ACS on STN
AN 1981:133179 CAPLUS <>LOGINID::20091109>>
DN 94:133179
OREF 94:21707a,21710a
TI Structural modifications and their effects on the genetic functions of DNA generated by interactions with benzo[a]pyrene metabolites
AU Kakefuda, Tsuyoshi; Mizusawa, Hiroshi; ***Lee, Che-Hung Robert*** ;
Madigan, Patricia; Feldman, Richard J.
CS Lab. Mol. Carcinog., Natl. Cancer Inst., Bethesda, MD, USA
SO Jerusalem Symposia on Quantum Chemistry and Biochemistry (1980),
13(Carcinog.: Fundam. Mech. Environ. Eff.), 389-407
CODEN: JSQCA7; ISSN: 0075-3696
DT Journal; General Review
LA English
OSC.G 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS)

L2 ANSWER 9 OF 9 CAPLUS COPYRIGHT 2009 ACS on STN
AN 1976:146294 CAPLUS <>LOGINID::20091109>>
DN 84:146294
OREF 84:23745a,23748a
TI Solution conformations of nucleotides and nucleotide coenzymes studied by fast Fourier transform proton and phosphorus-31 nuclear magnetic resonance spectroscopy
AU ***Lee, Che-Hung R.***
CS State Univ. New York, Albany, NY, USA
SO (1975) 257 pp. Avail.: Xerox Univ. Microfilms, Ann Arbor, Mich., Order No. 76-4609
From: Diss. Abstr. Int. B 1976, 36(8), 3928
DT Dissertation
LA English

=> e frasch carl e/au

E1 2 FRASCH C S/AU
E2 22 FRASCH CARL/AU
E3 213 --> FRASCH CARL E/AU
E4 1 FRASCH CARL EDWARD/AU
E5 2 FRASCH CARLOS/AU
E6 1 FRASCH COURTNEY S/AU
E7 2 FRASCH D L/AU
E8 1 FRASCH E/AU
E9 4 FRASCH E C/AU
E10 3 FRASCH E WALTER/AU
E11 1 FRASCH ET AL C E/AU
E12 1 FRASCH EUGEN/AU

=> s e2-e4 and polysaccharide? and vaccin? and conjugat?
L3 74 ("FRASCH CARL"/AU OR "FRASCH CARL E"/AU OR "FRASCH CARL EDWARD"/
AU) AND POLYSACCHARIDE? AND VACCIN? AND CONJUGAT?

=> dup rem 13
PROCESSING COMPLETED FOR L3
L4 36 DUP REM L3 (38 DUPLICATES REMOVED)

=> d 1-
YOU HAVE REQUESTED DATA FROM 36 ANSWERS - CONTINUE? Y/(N):y

L4 ANSWER 1 OF 36 CAPLUS COPYRIGHT 2009 ACS on STN DUPLICATE 1
AN 2009:1309039 CAPLUS <>LOGINID::20091109>>
TI Preparation of bacterial ***polysaccharide*** -protein
conjugates : Analytical and manufacturing challenges
AU ***Frasch, Carl E.***
CS Frasch Biologics Consulting, Martinsburg, WV, 25402, USA
SO Vaccine (2009), 27(46), 6468-6470
CODEN: VACCDE; ISSN: 0264-410X
PB Elsevier Ltd.
DT Journal
LA English

L4 ANSWER 2 OF 36 BIOSIS COPYRIGHT (c) 2009 The Thomson Corporation on STN
DUPLICATE 2
AN 2009:175602 BIOSIS <>LOGINID::20091109>>
DN PREV200900175602
TI Preparation and characterization of an immunogenic meningococcal group A
conjugate ***vaccine*** for use in Africa.
AU Lee, Che-Hung [Reprint Author]; Kuo, Wen-Chun; Beri, Suresh; Kapre,
Subash; Joshi, Jayant S.; Bouveret, Nancy; LaForce, F. Marc;
Frasch,
*** Carl E.***
CS US FDA, Lab Bacterial Polysaccharides, HFM 428, DBPAP, OVRR, CBER, Ctr Biol
Evaluat and Res, NIH Campus, Bldg 29, Room 404, 29 Lincoln Ave, Bethesda, MD
20892 USA
robert.lee@fda.hhs.gov
SO Vaccine, (JAN 29 2009) Vol. 27, No. 5, pp. 726-732.
CODEN: VACCDE. ISSN: 0264-410X.
DT Article
LA English
ED Entered STN: 4 Mar 2009
Last Updated on STN: 4 Mar 2009

L4 ANSWER 3 OF 36 BIOSIS COPYRIGHT (c) 2009 The Thomson Corporation on STN
DUPLICATE 3
AN 2009:509876 BIOSIS <>LOGINID::20091109>>
DN PREV200900510979
TI Bactericidal antibody is the immunologic surrogate of protection against
meningococcal disease.
AU ***Frasch, Carl E.*** [Reprint Author]; Borrow, Ray; Donnelly, John
CS Frasch Biol Consulting, POB 986, Martinsburg, WV 25402 USA
Cfrasch1@juno.com
SO Vaccine, (JUN 24 2009) Vol. 27, No. Suppl. 2, pp. B112-B116.
CODEN: VACCDE. ISSN: 0264-410X.
DT Article
LA English
ED Entered STN: 26 Aug 2009
Last Updated on STN: 26 Aug 2009

L4 ANSWER 4 OF 36 SCISEARCH COPYRIGHT (c) 2009 The Thomson Corporation on
STN
AN 2009:433134 SCISEARCH <>LOGINID::20091109>>
GA The Genuine Article (R) Number: 424YL
TI CLINICAL CHARACTERISTICS OF A NOVEL 10-VALENT PNEUMOCOCCAL NON-TYPEABLE
Haemophilus influenzae PROTEIN D ***CONJUGATE*** ***VACCINE***
CANDIDATE (PHid-CV) Introduction
AU Dagan, Ron (Reprint)
CS Soroka Univ, Med Ctr, Pediat Infect Dis Unit, POB 151, IL-84101 Beer
Sheva, Israel (Reprint)
E-mail: rdagan@bgu.ac.il
AU Dagan, Ron (Reprint)
CS Soroka Univ, Med Ctr, Pediat Infect Dis Unit, IL-84101 Beer Sheva, Israel
E-mail: rdagan@bgu.ac.il
AU ***Frasch, Carl***
CS Frasch Biol Consulting, Martinsburg, VA USA
CYA Israel; USA
SO PEDIATRIC INFECTIOUS DISEASE JOURNAL, (APR 2009) Vol. 28, No. 4, Supp.
[S], pp. S63-S65.
ISSN: 0891-3668.
PB LIPPINCOTT WILLIAMS & WILKINS, 530 WALNUT ST, PHILADELPHIA, PA 19106-3621
USA.
DT Editorial; Journal
LA English
REC Reference Count: 27
ED Entered STN: 9 Apr 2009
Last Updated on STN: 9 Apr 2009

L4 ANSWER 5 OF 36 EMBASE COPYRIGHT (c) 2009 Elsevier B.V. All rights
reserved on STN
AN 2009270320 EMBASE <>LOGINID::20091109>>
TI Bactericidal antibody is the immunologic surrogate of protection against
meningococcal disease.
AU ***Frasch, Carl E. (correspondence)***
CS Frasch Biologics Consulting, PO Box 986, Martinsburg, WV, USA, 25402,
United States. Cfrasch1@juno.com
AU Borrow, Ray
CS Vaccine Evaluation Unit, Health Protection Agency, Manchester Laboratory,
PO Box 209, Clinical Sciences Bldg. 2, Manchester, M13 9WZ, United Kingdom
. .
AU Donnelly, John

CS Novartis Vaccines and Diagnostics, Via Fiorentina 1, 53100 Siena, Italy.
SO Vaccine, (24 Jun 2009) Vol. 27, No. SUPPL. 2, pp. B112-B116.
Refs: 38
ISSN: 0264-410X CODEN: VACCDE
PB Elsevier Ltd, Langford Lane, Kidlington, Oxford, OX5 1GB, United Kingdom.
PUI S 0264-410X(09)00619-7
CY United Kingdom
DT Journal; Article
FS 004 Microbiology: Bacteriology, Mycology, Parasitology and Virology
008 Neurology and Neurosurgery
026 Immunology, Serology and Transplantation
037 Drug Literature Index
LA English
SL English
ED Entered STN: 1 Jul 2009
Last Updated on STN: 1 Jul 2009

L4 ANSWER 6 OF 36 CAPLUS COPYRIGHT 2009 ACS on STN
AN 2008:406701 CAPLUS <>LOGINID::20091109>>
DN 149:51021
TI ***Conjugation*** chemistry
AU Lees, Andrew; Puvanesarajah, Velupillai; ***Frasch, Carl E.***
CS Fina BioSolutions LLC, Rockville, MD, 20850, USA
SO Pneumococcal Vaccines (2008), 163-174. Editor(s): Siber, George R.;
Klugman, Keith P.; Makela, P. Helena. Publisher: American Society for
Microbiology, Washington, D. C.
CODEN: 69KNDR; ISBN: 978-1-55581-408-3
DT Conference; General Review
LA English
RE.CNT 54 THERE ARE 54 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 7 OF 36 BIOSIS COPYRIGHT (c) 2009 The Thomson Corporation on STN
DUPLICATE 4
AN 2008:42941 BIOSIS <>LOGINID::20091109>>
DN PREV20080043014
TI Comparison of *Neisseria meningitidis* serogroup W135 ***polysaccharide***
-tetanus toxoid ***conjugate*** ***vaccines*** made by periodate
activation of O-acetylated, non-O-acetylated and chemically
de-O-acetylated ***polysaccharide*** .
AU Gudlavalleti, Seshu K. [Reprint Author]; Lee, Che-Hung; Norris, Scott E.;
Paul-Satyyaseela, Maneesh; Vann, Willie F.; ***Frasch, Carl E.***
CS US FDA, Ctr Biol Evaluat and Res, Lab Bacterial Polysaccharides, Room
109, Bldg 29, Lincoln Dr, Bethesda, MD 20892 USA
gudlavalletis@yahoo.com
SO Vaccine, (NOV 14 2007) Vol. 25, No. 46, pp. 7972-7980.
CODEN: VACCDE. ISSN: 0264-410X.
DT Article
LA English
ED Entered STN: 27 Dec 2007
Last Updated on STN: 4 Jan 2008

L4 ANSWER 8 OF 36 CAPLUS COPYRIGHT 2009 ACS on STN
AN 2006:375252 CAPLUS <>LOGINID::20091109>>
DN 145:353705
TI Immune responses to ***polysaccharide*** and ***conjugate***
vaccines

AU ***Frasch, Carl E.***
 CS Laboratory of Bacterial Polysaccharides, Center for Biologics Evaluation
 and Research, Rockville, MD, 20852, USA
 SO Manual of Molecular and Clinical Laboratory Immunology (7th Edition)
 (2006), 434-443. Editor(s): Detrick, Barbara; Hamilton, Robert G.; Folds,
 James D. Publisher: American Society for Microbiology, Washington, D. C.
 CODEN: 69IBCE; ISBN: 978-1-55581-364-2
 DT Conference; General Review
 LA English
 RE.CNT 71 THERE ARE 71 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 9 OF 36 LIFESCI COPYRIGHT 2009 CSA on STN
 AN 2007:131059 LIFESCI <<LOGINID::20091109>>
 TI Use of Opsonophagocytosis for Serological Evaluation of Pneumococcal
 Vaccines
 AU Romero-Steiner, Sandra; ***Frasch, Carl E.*** ; Caralone, George; Fleck,
 Roland A.; Goldblatt, David; Nahm, Moon H.
 CS Centers for Disease Control and Prevention, Atlanta, Georgia 30333. Food
 and Drug Administration, Bethesda, Maryland 20892. National Institute for
 Biological Standards and Control, South Mimms, England. Institute of Child
 Health, University College London, London, England. and University of
 Alabama at Birmingham, Birmingham, Alabama 35249
 SO Clinical and Vaccine Immunology [Clin. Vaccine Immunol.], (20060200) vol.
 13, no. 2, pp. 165-169.
 ISSN: 1556-6811.
 DT Journal
 TC General Review
 FS F
 LA English

L4 ANSWER 10 OF 36 CAPLUS COPYRIGHT 2009 ACS on STN
 AN 2005:371097 CAPLUS <<LOGINID::20091109>>
 DN 142:428760
 TI ***Polysaccharide*** -protein ***conjugate*** ***vaccines***
 preparation
 IN Jessorcoun, Ellen; Da Silveira, Ivna Alana Freitas Brasileiro; Bastos,
 Renata Chagas; ***Frasch, Carl E.*** ; Lee, Che-Hung Robert
 PA The Government of the United States of America, as Represented by the
 Secretary Department of Health and Human Services, USA
 SO PCT Int. Appl., 41 pp.
 CODEN: PIIXD2
 DT Patent
 LA English
 FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2005037320	A2	20050428	WO 2004-US26431	20040806
	WO 2005037320	A3	20060105		
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK,				

EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE,
 SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE,
 SN, TD, TG
 AU 2004281630 A1 20050428 AU 2004-281630 20040806
 CA 2535043 A1 20050428 CA 2004-2535043 20040806
 EP 1651262 A2 20060503 EP 2004-809568 20040806
 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
 IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, PL, SK, HR
 BR 2004013323 A 20061010 BR 2004-13323 20040806
 CN 1863554 A 20061115 CN 2004-80028978 20040806
 CN 100423774 C 20081008
 ZA 2006001688 A 20070530 ZA 2006-1688 20060227
 ZA 2006001689 A 20071227 ZA 2006-1689 20060227
 IN 2006DN01096 A 20070810 IN 2006-DN1096 20060301
 US 20070110762 A1 20070517 US 2006-566898 20061026
 PRAI US 2003-493389P P 20030806
 WO 2004-US26431 W 20040806
 OSC.G 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS)
 RE.CNT 1 THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 11 OF 36 CAPLUS COPYRIGHT 2009 ACS on STN
 AN 2005:136594 CAPLUS <>LOGINID::20091109>>
 DN 142:217375
 TI Preparation of ***polysaccharide*** -protein ***conjugate*** for
 use as ***vaccines***
 IN Lee, Che-Hung Robert; ***Frasch, Carl E.***
 PA The Government of the United States of America, as Represented by the
 Secretary Department of Health and Human Services, USA
 SO PCT Int. Appl., 61 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 2

PATENT NO.		KIND	DATE	APPLICATION NO.	DATE
PI	WO 2005014037	A2	20050217	WO 2004-US25477	20040806
	WO 2005014037	A3	20060126		
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
AU 2004263135	A1	20050217	AU 2004-263135	20040806	
CA 2534870	A1	20050217	CA 2004-2534870	20040806	
EP 1651261	A2	20060503	EP 2004-786467	20040806	
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, PL, SK, HR					
BR 2004013309	A	20061010	BR 2004-13309	20040806	
CN 1863553	A	20061115	CN 2004-80028977	20040806	
ZA 2006001688	A	20070530	ZA 2006-1688	20060227	

ZA 2006001689 A 20071227 ZA 2006-1689 20060227
IN 2006DN01095 A 20070810 IN 2006-DN1095 20060301
US 20070141084 A1 20070621 US 2006-566899 20060925
PRAI US 2003-493389P P 20030806
WO 2004-US25477 W 20040806

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT
OSC.G 3 THERE ARE 3 CAPLUS RECORDS THAT CITE THIS RECORD (3 CITINGS)
RE.CNT 1 THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 12 OF 36 CAPLUS COPYRIGHT 2009 ACS on STN DUPLICATE 5
AN 2005:150495 CAPLUS <>LOGINID::20091109>>
DN 142:428177
TI Recent developments in Neisseria meningitidis group A ***conjugate***
vaccines
AU ***Frasch, Carl E.***
CS Center for Biologics Evaluation and Research, Division of Bacterial
Parasitic and Allergenic Products, Laboratory of Bacterial
Polysaccharides, FDA, Rockville, MD, 20852, USA
SO Expert Opinion on Biological Therapy (2005), 5(2), 273-280
CODEN: EOBTAA; ISSN: 1471-2598
PB Ashley Publications Ltd.
DT Journal; General Review
LA English
OSC.G 10 THERE ARE 10 CAPLUS RECORDS THAT CITE THIS RECORD (10 CITINGS)
RE.CNT 43 THERE ARE 43 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 13 OF 36 BIOSIS COPYRIGHT (c) 2009 The Thomson Corporation on
STN
AN 2006:158654 BIOSIS <>LOGINID::20091109>>
DN PREV200600154114
TI A method with increased yield for production of ***polysaccharide***
-protein ***conjugate*** ***vaccines*** using hydrazide chemistry.
AU Lee, Che-Hung R. (Reprint Author); ***Frasch, Carl E.***
CS Ctr Biol Evaluat and Res, Div Bacterial Prod, Rockville, MD 20852 USA
lee_r@cbcr.fda.gov
SO Abstracts of Papers American Chemical Society, (MAR 28 2004) Vol. 227, No.
Part 1, pp. U137.
Meeting Info.: 227th National Meeting of the American-Chemical Society.
Anaheim, CA, USA. March 28 -April 01, 2004. Amer Chem Soc.
CODEN: ACSRAL. ISSN: 0065-7727.
DT Conference; (Meeting)
Conference; Abstract; (Meeting Abstract)
LA English
ED Entered STN: 9 Mar 2006
Last Updated on STN: 9 Mar 2006

L4 ANSWER 14 OF 36 BIOSIS COPYRIGHT (c) 2009 The Thomson Corporation on
STN
AN 2006:158644 BIOSIS <>LOGINID::20091109>>
DN PREV200600154104
TI A method with increased yield for production of ***polysaccharide***
-protein ***conjugate*** ***vaccines*** using hydrazide chemistry.
AU Lee, Cho-Hung R. (Reprint Author); ***Frasch, Carl E.***
CS Ctr Biol Evaluat and Res, Div Bacterial Prod, Rockville, MD 20852 USA
lee_r@cbcr.fda.gov

SO Abstracts of Papers American Chemical Society, (MAR 28 2004) Vol. 227, No. Part 1, pp. U135.
Meeting Info.: 227th National Meeting of the American-Chemical Society.
Anaheim, CA, USA. March 28 -April 01, 2004. Amer Chem Soc.
CODEN: ACSRAL. ISSN: 0065-7727.

DT Conference; (Meeting)
Conference; Abstract; (Meeting Abstract)

LA English

ED Entered STN: 9 Mar 2006
Last Updated on STN: 9 Mar 2006

L4 ANSWER 15 OF 36 CAPLUS COPYRIGHT 2009 ACS on STN
AN 2004:221628 CAPLUS <<LOGINID::20091109>>
TI A method with increased yield for production of ***polysaccharide***-protein ***conjugate*** ***vaccines*** using hydrazide chemistry
AU Lee, Che-Hung R.; ***Frasch, Carl E.***
CS Division of Bacterial Products, Center for Biologics Evaluation and Research, Rockville, MD, 20852, USA
SO Abstracts of Papers, 227th ACS National Meeting, Anaheim, CA, United States, March 28-April 1, 2004 (2004), BIOT-082 Publisher: American Chemical Society, Washington, D. C.
CODEN: 69FGKM
DT Conference; Meeting Abstract
LA English

L4 ANSWER 16 OF 36 CAPLUS COPYRIGHT 2009 ACS on STN DUPLICATE 6
AN 2003:649462 CAPLUS <<LOGINID::20091109>>
DN 140:161847
TI Enzyme-linked immunosorbent assay for quantitation of human antibodies to pneumococcal ***polysaccharides***
AU Wernette, Catherine M.; ***Frasch, Carl E.*** ; Madore, Dace; Carbone, George; Goldblatt, David; Plikaytis, Brian; Benjamin, William; Quataert, Sally A.; Hildreth, Steve; Sikkema, Daniel J.; Kayhty, Helena; Jonsdottir, Ingileif; Nahm, Moon H.
CS Department of Pathology and Microbiology, University of Alabama at Birmingham, Birmingham, AL, USA
SO Clinical and Diagnostic Laboratory Immunology (2003), 10(4), 514-519
CODEN: CDIMEN; ISSN: 1071-412X
PB American Society for Microbiology
DT Journal; General Review
LA English
OSC.G 59 THERE ARE 59 CAPLUS RECORDS THAT CITE THIS RECORD (59 CITINGS)
RE.CNT 72 THERE ARE 72 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 17 OF 36 CAPLUS COPYRIGHT 2009 ACS on STN DUPLICATE 7
AN 2003:966575 CAPLUS <<LOGINID::20091109>>
DN 140:109652
TI Protective immunity of pneumococcal glycoconjugates
AU Lee, Chi-Jen; Lee, Lucia H.; ***Frasch, Carl E.***
CS Center for Biologics Evaluation and Research, Food and Drug Administration, Rockville, MD, 20852-1448, USA
SO Critical Reviews in Microbiology (2003), 29(4), 333-349
CODEN: CRVMAC; ISSN: 1040-841X
PB CRC Press LLC
DT Journal; General Review
LA English

OSC.G 9 THERE ARE 9 CAPLUS RECORDS THAT CITE THIS RECORD (9 CITINGS)
RE.CNT 79 THERE ARE 79 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 18 OF 36 CAPLUS COPYRIGHT 2009 ACS on STN
AN 2004:499741 CAPLUS <>LOGINID::20091109>>
DN 141:205178
TI Neisseria meningitidis ***vaccines***
AU ***Frasch, Carl E.*** ; Bash, Margaret C.
CS Laboratory of Bacterial Polysaccharides, Center for Biologics Evaluation
and Research, FDA, Bethesda, MD, USA
SO New Bacterial Vaccines (2003), 229-243. Editor(s): Ellis, Ronald W.;
Brodeur, Bernard R. Publisher: Landes Bioscience, Georgetown, Tex.
CODEN: 69FN17; ISBN: 0-306-47832-3
DT Conference; General Review
LA English
RE.CNT 85 THERE ARE 85 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 19 OF 36 CAPLUS COPYRIGHT 2009 ACS on STN
AN 2003:179139 CAPLUS <>LOGINID::20091109>>
TI Antibody responses to encapsulated group C meningococcal
polysaccharide -tetanus toxoid ***conjugates***
AU ***Frasch, Carl E.*** ; Lee, Che-Hung; Zhang, Jizhong
CS Division of Bacterial Products, Center for Biologics Evaluation and
Research, FDA, Rockville, MD, 20852, USA
SO Abstracts of Papers, 225th ACS National Meeting, New Orleans, LA, United
States, March 23-27, 2003 (2003), BIOT-146 Publisher: American Chemical
Society, Washington, D. C.
CODEN: 69DSA4
DT Conference; Meeting Abstract
LA English

L4 ANSWER 20 OF 36 BIOSIS COPYRIGHT (c) 2009 The Thomson Corporation on
STN
AN 2003:381914 BIOSIS <>LOGINID::20091109>>
DN PREV200300381914
TI Antibody responses to encapsulated group C meningococcal
polysaccharide -tetanus toxoid ***conjugates*** .
AU ***Frasch, Carl E.*** [Reprint Author]; Lee, Che-Hung; Zhang, Jizhong
CS Division of Bacterial Products, Center for Biologics Evaluation and
Research, FDA, 1401 Rockville Pike, HFM-428, Rockville, MD, 20852, USA
frasch@cer.fda.gov
SO Abstracts of Papers American Chemical Society, (2003) Vol. 225, No. 1-2,
pp. BIOT 146. print.
Meeting Info.: 225th American Chemical Society (ACS) National Meeting. New
Orleans, LA, USA. March 23-27, 2003. American Chemical Society.
ISSN: 0065-7727 (ISSN print).
DT Conference; (Meeting)
Conference; Abstract; (Meeting Abstract)
LA English
ED Entered STN: 20 Aug 2003
Last Updated on STN: 20 Aug 2003

L4 ANSWER 21 OF 36 BIOSIS COPYRIGHT (c) 2009 The Thomson Corporation on
STN DUPLICATE 8
AN 2002:402598 BIOSIS <>LOGINID::20091109>>

DN PREV200200402598
TI Effect of O acetylation of *Neisseria meningitidis* serogroup A capsular ***polysaccharide*** on development of functional immune responses.
AU Berry, David S.; Lynn, Freyja; Lee, Che-Hung; ***Frasch, Carl E.*** ; Bash, Margaret C. [Reprint author]
CS Division of Bacterial, Parasitic and Allergenic Products, Center for Biologics Evaluation and Research, 1401 Rockville Pike, HFM-428, Rockville, MD, 20852, USA
mbash@helix.nih.gov
SO Infection and Immunity, (July, 2002) Vol. 70, No. 7, pp. 3707-3713. print.
CODEN: INFIBR. ISSN: 0019-9567.
DT Article
LA English
ED Entered STN: 24 Jul 2002
Last Updated on STN: 24 Jul 2002

L4 ANSWER 22 OF 36 EMBASE COPYRIGHT (c) 2009 Elsevier B.V. All rights reserved on STN DUPLICATE 9
AN 2002126603 EMBASE <<LOGINID::20091109>>
TI Development and evaluation of pneumococcal ***conjugate*** ***vaccines*** : Clinical trials and control tests.
AU Lee, Lucia H. (correspondence); Lee, Chi-Jen; ***Frasch, Carl E.***
CS Ctr. for Biologics Evaluation/Res., Food and Drug Administration, Rockville, MD 20852-1448, United States.
SO Critical Reviews in Microbiology, (2002) Vol. 28, No. 1, pp. 27-41.
Refs: 100
ISSN: 1040-841X CODEN: CRVMAC
CY United States
DT Journal; General Review; (Review)
FS 037 Drug Literature Index
004 Microbiology: Bacteriology, Mycology, Parasitology and Virology
LA English
SL English
ED Entered STN: 25 Apr 2002
Last Updated on STN: 25 Apr 2002

L4 ANSWER 23 OF 36 BIOSIS COPYRIGHT (c) 2009 The Thomson Corporation on STN DUPLICATE 10
AN 2001:285910 BIOSIS <<LOGINID::20091109>>
DN PREV200100285910
TI Immunogenicity in mice of pneumococcal glycoconjugate ***vaccines*** using pneumococcal protein carriers.
AU Lee, Chi-Jen [Reprint author]; Wang, Theresa R.; ***Frasch, Carl E.***
CS Center for Biologics Evaluation and Research, Food and Drug Administration, 1401 Rockville Pike, NIH Building 29, Room 405, Rockville, MD, 20892, USA
SO Vaccine, (30 April, 2001) Vol. 19, No. 23-24, pp. 3216-3225. print.
CODEN: VACCDE. ISSN: 0264-410X.
DT Article
LA English
ED Entered STN: 13 Jun 2001
Last Updated on STN: 19 Feb 2002

L4 ANSWER 24 OF 36 BIOSIS COPYRIGHT (c) 2009 The Thomson Corporation on STN
AN 2001:258334 BIOSIS <<LOGINID::20091109>>
DN PREV200100258334

TI Antibody avidity and protective immunity elicited by pneumococcal type 9V
conjugate ***vaccines*** .
AU Lee, Chi-Jen [Reprint author]; ***Frasch, Carl E.*** [Reprint author]
CS Center for Biologics Evaluation and Research, FDA, 1401 Rockville Pike,
FHM-428, Rockville, MD, 20852-1448, USA
SO FASEB Journal, (March 8, 2001) Vol. 15, No. 5, pp. A1034. print.
Meeting Info.: Annual Meeting of the Federation of American Societies for
Experimental Biology on Experimental Biology 2001. Orlando, Florida, USA.
March 31-April 04, 2001.
CODEN: FAJOCB. ISSN: 0892-6638.
DT Conference; (Meeting)
Conference; Abstract; (Meeting Abstract)
LA English
ED Entered STN: 30 May 2001
Last Updated on STN: 19 Feb 2002

L4 ANSWER 25 OF 36 BIOSIS COPYRIGHT (c) 2009 The Thomson Corporation on
STN DUPLICATE 11
AN 2001:225839 BIOSIS <<LOGINID::20091109>>
DN PREV200100225839
TI Pneumococcal type 22F ***polysaccharide*** absorption improves the
specificity of a pneumococcal- ***polysaccharide*** enzyme-linked
immunosorbent assay.
AU Concepcion, Nelydia F.; ***Frasch, Carl E.*** [Reprint author]
CS Division of Bacterial Products, CBER, 1401 Rockville Pike, FHM-428,
Rockville, MD, 20852, USA
frasch@cber.fda.gov
SO Clinical and Diagnostic Laboratory Immunology, (March, 2001) Vol. 8, No.
2, pp. 266-272. print.
ISSN: 1071-412X.
DT Article
LA English
ED Entered STN: 9 May 2001
Last Updated on STN: 18 Feb 2002

L4 ANSWER 26 OF 36 BIOSIS COPYRIGHT (c) 2009 The Thomson Corporation on
STN DUPLICATE 12
AN 2001:462306 BIOSIS <<LOGINID::20091109>>
DN PREV200100462306
TI Quantification of bacterial ***polysaccharides*** by the purpald
assay: Measurement of periodate-generated formaldehyde from glycol in the
repeating unit.
AU Lee, Che-Hung [Reprint author]; ***Frasch, Carl E.*** [Reprint author]
CS Laboratory of Bacterial Polysaccharides, Division of Bacterial, Parasitic
and Allergenic Products OVR, CBER, FDA, 8800 Rockville Pike, Bethesda,
MD, 20892, USA
SO Analytical Biochemistry, (September 1, 2001) Vol. 296, No. 1, pp. 73-82.
print.
CODEN: ANBCA2. ISSN: 0003-2697.
DT Article
LA English
ED Entered STN: 3 Oct 2001
Last Updated on STN: 22 Feb 2002

L4 ANSWER 27 OF 36 BIOSIS COPYRIGHT (c) 2009 The Thomson Corporation on
STN DUPLICATE 13
AN 2001:472521 BIOSIS <<LOGINID::20091109>>

print.
CODEN: INFIBR. ISSN: 0019-9567.

DT Article
LA English
ED Entered STN: 3 Feb 1999
Last Updated on STN: 3 Feb 1999

L4 ANSWER 31 OF 36 BIOSIS COPYRIGHT (c) 2009 The Thomson Corporation on
STN DUPLICATE 15
AN 1997:152630 BIOSIS <>LOGINID::20091109>>
DN PREV199799451833
TI Bactericidal antibody responses of juvenile rhesus monkeys immunized with
group B Neisseria meningitidis capsular ***polysaccharide*** -protein
conjugate ***vaccines*** .
AU Zollinger, Wendell D. [Reprint author]; Moran, Ellen E.; Devi,
Sarvamangala J. N.; ***Frasch, Carl E.***
CS Dep. Bacterial Diseases, Walter Reed Army Inst. Res., Washington, DC
20307-5100, USA
SO Infection and Immunity, (1997) Vol. 65, No. 3, pp. 1053-1060.
CODEN: INFIBR. ISSN: 0019-9567.
DT Article
LA English
ED Entered STN: 15 Apr 1997
Last Updated on STN: 15 Apr 1997

L4 ANSWER 32 OF 36 BIOSIS COPYRIGHT (c) 2009 The Thomson Corporation on
STN DUPLICATE 16
AN 1997:152629 BIOSIS <>LOGINID::20091109>>
DN PREV199799451832
TI Preclinical evaluation of group B Neisseria meningitidis and Escherichia
coli K92 capsular ***polysaccharide*** -protein ***conjugate***
vaccines in juvenile rhesus monkeys.
AU Devi, Sarvamangala J. N.; Zollinger, Wendell D.; Snoy, Phil J.; Tai,
Joseph Y.; Costantini, Paolo; Norelli, Francesco; Rappuoli, Rino;
Frasch, Carl E. [Reprint author]
CS Division Bacterial Products, HFM 428, Office Vaccine Res. Review, Cent.
Biol. Evaluation Res., U.S. Food Drug Administration, 1401 Rockville Pk.,
Rockville, MD 20852-1448, USA
SO Infection and Immunity, (1997) Vol. 65, No. 3, pp. 1045-1052.
CODEN: INFIBR. ISSN: 0019-9567.
DT Article
LA English
ED Entered STN: 15 Apr 1997
Last Updated on STN: 15 Apr 1997

L4 ANSWER 33 OF 36 BIOSIS COPYRIGHT (c) 2009 The Thomson Corporation on
STN
AN 1997:282616 BIOSIS <>LOGINID::20091109>>
DN PREV199799581819
TI Validation of antibody values to pneumococcal reference serum lot 89SF by
cross-standardization (C-S).
AU Concepcion, N. F.; ***Frasch, Carl E.***
CS CBER, FDA, 29 Lincoln Drive, Bethesda, MD, USA
SO Abstracts of the General Meeting of the American Society for Microbiology,
(1997) Vol. 97, No. 0, pp. 182.
Meeting Info.: 97th General Meeting of the American Society for
Microbiology. Miami Beach, Florida, USA. May 4-8, 1997.

DT ISSN: 1060-2011.
Conference; (Meeting)
Conference; Abstract; (Meeting Abstract)
Conference; (Meeting Poster)
LA English
ED Entered STN: 3 Jul 1997
Last Updated on STN: 3 Jul 1997

L4 ANSWER 34 OF 36 BIOSIS COPYRIGHT (c) 2009 The Thomson Corporation on
STN DUPLICATE 17
AN 1996:422535 BIOSIS <>LOGINID::20091109>>
DN PREV199699153591
TI Binding diversity of monoclonal antibodies to alpha(2 fwdxw 8) polysialic
acid ***conjugated*** to outer membrane vesicle via adipic acid
dihydrazide.
AU Devi, Sarvamangala J. N. [Reprint author]; Karpas, Arthur B.;
Frasch,
*** Carl E.***
CS Div. Bacterial Products, HFM 428, Office Vaccine Res. Review, Cent. Biol.
Eval. Res., US Food Drug Administration, Rockville Pike, Rockville, MD
20852-1448, USA
SO FEMS Immunology and Medical Microbiology, (1996) Vol. 14, No. 4, pp.
211-220.
ISSN: 0928-8244.
DT Article
LA English
ED Entered STN: 26 Sep 1996
Last Updated on STN: 5 Nov 1996

L4 ANSWER 35 OF 36 BIOSIS COPYRIGHT (c) 2009 The Thomson Corporation on
STN DUPLICATE 18
AN 1995:409454 BIOSIS <>LOGINID::20091109>>
DN PREV199598423754
TI Capsular ***polysaccharide*** -protein ***conjugate***
vaccines of carbotype 1 *Vibrio vulnificus*: Construction,
immunogenicity, and protective efficacy in a murine model.
AU Devi, Sarvamangala J. N.; Hayat, Unaiza; ***Frasch, Carl E.*** ;
Kreger, Arnold S.; Morris, J. Glenn, Jr. [Reprint author]
CS Infectious Diseases Section, VA Med. Cent., 10 N. Greene St., Room 5D139,
Baltimore, MD 21201, USA
SO Infection and Immunity, (1995) Vol. 63, No. 8, pp. 2906-2911.
CODEN: INFIBR. ISSN: 0019-9567.
DT Article
LA English
ED Entered STN: 27 Sep 1995
Last Updated on STN: 27 Sep 1995

L4 ANSWER 36 OF 36 BIOSIS COPYRIGHT (c) 2009 The Thomson Corporation on
STN
AN 1994:415027 BIOSIS <>LOGINID::20091109>>
DN PREV199497428027
TI Regulatory perspectives in ***vaccine*** licensure.
AU ***Frasch, Carl E.***
CS Cent. Biol. Eval. Res., Bethesda, MD, USA
SO Ellis, R. W. [Editor]; Granoff, D. M. [Editor]. Infectious Disease and
Therapy, (1994) pp. 435-453. Infectious Disease and Therapy; Development
and clinical uses of *Haemophilus b* conjugate vaccines.

Publisher: Marcel Dekker, Inc., 270 Madison Avenue, New York, New York 10016, USA; Marcel Dekker, Inc., Basel, Switzerland. Series: Infectious Disease and Therapy.
ISSN: 1043-2981. ISBN: 0-8247-9186-X.
DT Book
Book; (Book Chapter)
LA English
ED Entered STN: 3 Oct 1994
Last Updated on STN: 3 Oct 1994

=> s conjugate? and vaccin? and polysaccharide? and oxidiz? and aldehyde? and (hydrazine? or adipic) and (hydrazide? or dihydrazide?)
L5 3 CONJUGATE? AND VACCIN? AND POLYSACCHARIDE? AND OXIDIZ? AND ALDEH
YDE? AND (HYDRAZINE? OR ADIPIC) AND (HYDRAZIDE? OR DIHYDRAZIDE?)

=> dup rem 15
PROCESSING COMPLETED FOR L5
L6 3 DUP REM L5 (0 DUPLICATES REMOVED)

=> d 1-
YOU HAVE REQUESTED DATA FROM 3 ANSWERS - CONTINUE? Y/(N):y

L6 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2009 ACS on STN
AN 2009:426211 CAPLUS <>LOGINID::20091109>>
DN 150:421151
TI Methods for preparing complex multivalent immunogenic ***conjugates***
IN Lee, Che-Hung Robert
PA The Government of the United States of America as Represented by the
Secretary of the Department of, USA
SO U.S. Pat. Appl. Publ., 62pp., Cont.-in-part of Appl. No.
PCT/US2007/006627.
CODEN: USXXCO
DT Patent
LA English
FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 20090092632	A1	20090409	US 2008-283894	20080915
	WO 2007109129	A2	20070927	WO 2007-US6627	20070316
	WO 2007109129	A3	20071108		
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, PL, PT, RO, SE, SI, SK, TR, BE, BJ, CF, CG, CI, CM, GA, GN, GO, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AP, EA, EP, OA				
PRAI	US 2006-783490P	P	20060317		
	WO 2007-US6627	A2	20070316		

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

L6 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2009 ACS on STN
 AN 2005:371097 CAPLUS <>LOGINID::20091109>>
 DN 142:428760
 TI ***polysaccharide*** -protein ***conjugate*** ***vaccines***
 preparation
 IN Jessouroun, Ellen; Da Silveira, Ivna Alana Freitas Brasileiro; Bastos, Renata Chagas; Frasch, Carl E.; Lee, Che-Hung Robert
 PA The Government of the United States of America, as Represented by the Secretary Department of Health and Human Services, USA
 SO PCT Int. Appl., 41 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2005037320	A2	20050428	WO 2004-US26431	20040806
	WO 2005037320	A3	20060105		
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	AU 2004281630	A1	20050428	AU 2004-281630	20040806
	CA 2535043	A1	20050428	CA 2004-2535043	20040806
	EP 1651262	A2	20060503	EP 2004-809568	20040806
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, PL, SK, HR				
	BR 2004013323	A	20061010	BR 2004-13323	20040806
	CN 1863554	A	20061115	CN 2004-80028978	20040806
	CN 100423774	C	20081008		
	ZA 2006001688	A	20070530	ZA 2006-1688	20060227
	ZA 2006001689	A	20071227	ZA 2006-1689	20060227
	IN 2006DN01096	A	20070810	IN 2006-DN1096	20060301
	US 20070110762	A1	20070517	US 2006-566898	20061026
PRAI	US 2003-493389P	P	20030806		
	WO 2004-US26431	W	20040806		
OSC.G	1	THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS)			
RE.CNT	1	THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD			
	ALL CITATIONS AVAILABLE IN THE RE FORMAT				

L6 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2009 ACS on STN
 AN 2005:136594 CAPLUS <>LOGINID::20091109>>
 DN 142:217375
 TI Preparation of ***polysaccharide*** -protein ***conjugate*** for use as ***vaccines***
 IN Lee, Che-Hung Robert; Frasch, Carl E.
 PA The Government of the United States of America, as Represented by the Secretary Department of Health and Human Services, USA
 SO PCT Int. Appl., 61 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 2

PATENT NO.		KIND	DATE	APPLICATION NO.	DATE
PI	WO 2005014037	A2	20050217	WO 2004-US25477	20040806
	WO 2005014037	A3	20060126		
		W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW		
		RW:	BW, GH, GM, KE, LS, MW, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG		
	AU 2004263135	A1	20050217	AU 2004-263135	20040806
	CA 2534870	A1	20050217	CA 2004-2534870	20040806
	EP 1651261	A2	20060503	EP 2004-786467	20040806
		R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, PL, SK, HR		
	BR 2004013309	A	20061010	BR 2004-13309	20040806
	CN 1863553	A	20061115	CN 2004-80028977	20040806
	ZA 2006001688	A	20070530	ZA 2006-1688	20060227
	ZA 2006001689	A	20071227	ZA 2006-1689	20060227
	IN 2006DN01095	A	20070810	IN 2006-DN1095	20060301
	US 20070141084	A1	20070621	US 2006-566899	20060925
PRAI	US 2003-493389P	P	20030806		
	WO 2004-US25477	W	20040806		

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

OSC.G 3 THERE ARE 3 CAPLUS RECORDS THAT CITE THIS RECORD (3 CITINGS)

RE.CNT 1 THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD

ALL CITATIONS AVAILABLE IN THE RE FORMAT